### Honeywell

#### Genetron®134a

#### 00000009876

Version 2.6 Revision Date 06/06/2014 Print Date 03/19/2019 SECTION 1. PRODUCT AND COMPANY IDENTIFICATION Product name Genetron® 134a : MSDS Number 00000009876 : Product Use Description Refrigerant, Propellant : Manufacturer or supplier's : Honeywell International Inc. details 115 Tabor Road Morris Plains, NJ 07950-2546 800-522-8001 For more information call : +1-973-455-6300 (Monday-Friday, 9:00am-5:00pm) Medical: 1-800-498-5701 or +1-303-389-1414 In case of emergency call : Transportation (CHEMTREC): 1-800-424-9300 or +1-703-• 527-3887 : : (24 hours/day, 7 days/week) SECTION 2. HAZARDS IDENTIFICATION **Emergency Overview** Form : Liquefied gas Color : colourless Odor : weak Classification of the substance or mixture Classification of the : Gases under pressure, Liquefied gas Simple Asphyxiant substance or mixture GHS Label elements, including precautionary statements Page 1 / 13

| AFETY DATA SHEET  | -  | Honeywell   |
|---|--|---|
| enetron®134a  |  |   |
| 000009876   |  |   |
| rsion 2.6   | Revision Date 06/06/2014   | Print Date 03/19/201  |
|   |  |   |
| Symbol(s)   | : 🔨  |   |
|   |  |   |
|   | $\mathbf{V}$   |   |
| Signal word   | : Warning  |   |
| Hazard statements   | : Contains gas under pressure; may<br>May displace oxygen and cause ra   |   |
| Precautionary statements  | : <b>Storage:</b><br>Protect from sunlight. Store in a we  | II-ventilated place.  |
| Hazards not otherwise<br>classified   | : May cause cardiac arrhythmia.<br>May cause frostbite.  |   |
| <b>Carcinogenicity</b><br>No component of this product  | present at levels greater than or equal to   | 0.1% is identified as a knowr   |
| No component of this product<br>or anticipated carcinogen by N  | present at levels greater than or equal to<br>NTP, IARC, or OSHA.<br>ORMATION ON INGREDIENTS   | 0.1% is identified as a knowr   |
| No component of this product<br>or anticipated carcinogen by N  | NTP, IARC, or OSHA.  | 0.1% is identified as a known   |
| No component of this product<br>or anticipated carcinogen by N<br>CTION 3. COMPOSITION/INFO   | OTP, IARC, or OSHA.  | 0.1% is identified as a known   |
| No component of this product<br>or anticipated carcinogen by N<br>CTION 3. COMPOSITION/INFO<br>Formula  | ORMATION ON INGREDIENTS<br>: CF3CH2F<br>: Substance  | 0.1% is identified as a known   |
| No component of this product<br>or anticipated carcinogen by N<br>CTION 3. COMPOSITION/INFO<br>Formula<br>Chemical nature   | ORMATION ON INGREDIENTS<br>: CF3CH2F<br>: Substance  |   |
| No component of this product<br>or anticipated carcinogen by N<br>CTION 3. COMPOSITION/INFO<br>Formula<br>Chemical nature<br>Chemical N   | ORMATION ON INGREDIENTS<br>: CF3CH2F<br>: Substance<br>Name CAS-No.<br>811-97-2  | Concentration   |
| No component of this product<br>or anticipated carcinogen by N<br>CTION 3. COMPOSITION/INFO<br>Formula<br>Chemical nature<br>1,1,1,2-Tetrafluoroethane                              | ORMATION ON INGREDIENTS<br>: CF3CH2F<br>: Substance<br>Name CAS-No.<br>811-97-2  | <u>Concentration</u><br>99.80 %<br>ular or stopped,<br>oxygen as required,<br>ent. Call a physician. Do |
| No component of this product<br>or anticipated carcinogen by N<br>CTION 3. COMPOSITION/INFO<br>Formula<br>Chemical nature<br>1,1,1,2-Tetrafluoroethane<br>CTION 4. FIRST AID MEASUR | NTP, IARC, or OSHA.         ORMATION ON INGREDIENTS         : CF3CH2F         : Substance         Name       CAS-No.         811-97-2         RES         : Move to fresh air. If breathing is irreg administer artificial respiration. Use o provided a qualified operator is prese | Ular or stopped,<br>bxygen as required,<br>ent. Call a physician. Do                                    |

# Honeywell

# Genetron® 134a

| sion 2.6                             | Revision Date 06/06/2014  | Print Date 03/19/2  |
|--------------------------------------|---|---|
|                                      |   |   |
| Skin contact                         | : After contact with skin, wash immed<br>If there is evidence of frostbite, bath<br>lukewarm (not hot) water. If water i<br>clean, soft cloth or similar covering.<br>physician.  | ne (do not rub) with<br>is not available, cover with a  |
| Eye contact                          | : Rinse immediately with plenty of wa<br>for at least 15 minutes. In case of fr<br>lukewarm, not hot. If symptoms per   | ostbite water should be   |
| Ingestion                            | : Unlikely route of exposure. As this<br>inhalation section. Do not induce vo<br>advice. Call a physician immediatel  | miting without medical  |
| Notes to physician                   |   |   |
| Treatment                            | : Because of the possible disturbance<br>catecholamine drugs, such as epine<br>with special caution and only in situ<br>support. Treatment of overexposure<br>control of symptoms and the clinica<br>bitten areas as needed.  | ephrine, should be used<br>lations of emergency life<br>e should be directed at the   |
| TION 5. FIREFIGHTING MEA             | SURES   |   |
| Suitable extinguishing media         | <ul> <li>The product is not flammable.</li> <li>Use water spray, alcohol-resistant carbon dioxide.</li> <li>Use extinguishing measures that a circumstances and the surrounding</li> </ul>  | are appropriate to local  |
| Specific hazards during firefighting | <ul> <li>Contents under pressure.<br/>This product is not flammable at a<br/>atmospheric pressure.<br/>However, this material can ignite w<br/>pressure and exposed to strong ig<br/>Container may rupture on heating.<br/>Cool closed containers exposed to<br/>Do not allow run-off from fire fightic<br/>courses.</li> <li>Vapours are heavier than air and o<br/>reducing oxygen available for bread</li> </ul> | when mixed with air under<br>nition sources.<br>o fire with water spray.<br>ng to enter drains or water<br>can cause suffocation by |
|                                      |   |   |
|                                      | Page 3 / 13   |   |

#### SAFETY DATA SHEET Honeywell Genetron® 134a 00000009876 Version 2.6 Revision Date 06/06/2014 Print Date 03/19/2019 In case of fire hazardous decomposition products may be produced such as: Hydrogen halides Hydrogen fluoride Carbon monoxide Carbon dioxide (CO2) Carbonyl halides Special protective equipment : In the event of fire and/or explosion do not breathe fumes. for firefighters Wear self-contained breathing apparatus and protective suit. No unprotected exposed skin areas. SECTION 6. ACCIDENTAL RELEASE MEASURES Personal precautions Immediately evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Wear personal protective equipment. Unprotected persons must be kept away. Remove all sources of ignition. Avoid skin contact with leaking liquid (danger of frostbite). Ventilate the area. After release, disperses into the air. Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. Avoid accumulation of vapours in low areas. Unprotected personnel should not return until air has been tested and determined safe. Ensure that the oxygen content is >= 19.5%. : Prevent further leakage or spillage if safe to do so. Environmental precautions The product evapourates readily. Ventilate the area. Methods for cleaning up SECTION 7. HANDLING AND STORAGE Handling Handling Handle with care. • Avoid inhalation of vapour or mist. Page 4 / 13

Honeywell

# Genetron® 134a

| sion 2.6  |     | Revision Date 06/06/2014  | Print Date 03/19/2   |
|---|-----|---|--|
|   |     |   |  |
|   |     | Do not get in eyes, on skin, or on cloth<br>Wear personal protective equipment.<br>Use only in well-ventilated areas.<br>Pressurized container. Protect from su<br>to temperatures exceeding 50 °C.<br>Follow all standard safety precautions<br>compressed gas cylinders.<br>Use authorized cylinders only.<br>Protect cylinders from physical damag<br>Do not puncture or drop cylinders, exp<br>or excessive heat.<br>Do not pierce or burn, even after use. | unlight and do not expose<br>for handling and use of<br>le.<br>bose them to open flame   |
|   |     | flame or any incandescent material.<br>Do not remove screw cap until immed<br>Always replace cap after use.   |  |
| Advice on protection against fire and explosion | ÷   | The product is not flammable.<br>Can form a combustible mixture with a<br>atmospheric pressure.   | air at pressures above   |
| Storage   |     |   |  |
| Requirements for storage areas and containers   | :   | Pressurized container: protect from su<br>to temperatures exceeding 50 °C. Do<br>after use.<br>Keep containers tightly closed in a dry<br>place.<br>Storage rooms must be properly ventil<br>Ensure adequate ventilation, especiall<br>Protect cylinders from physical damag  | not pierce or burn, even<br>, cool and well-ventilated<br>ated.<br>ly in confined areas. |
| TION & EXPOSURE CONT                            | ROL | S/PERSONAL PROTECTION   |  |
| Protective measures                             | :   | Do not breathe vapour.  |  |
|   |     | Avoid contact with skin, eyes and cloth<br>Ensure that eyewash stations and safe<br>the workstation location.   |  |
| Engineering measures                            | :   | General room ventilation is adequate a<br>Perform filling operations only at static<br>ventilation facilities.  |  |
|   |     | Page 5 / 13   |  |

# Honeywell

## Genetron® 134a 000000009876

| sion 2.6     Revision Date 06/06/2014     Print Date 03/19/2       Eye protection     ::     Wear as appropriate:<br>Safety glasses with side-shields<br>if splashes are likely to occur, wear:<br>Goggles or face shield, giving complete protection to eyes       Hand protection     ::     Leather gloves<br>In case of contact through splashing:<br>Protective glowes<br>Polyvinyl alcohol or nitrile- butyl-rubber gloves       Skin and body protection     :     Avoid skin contact with leaking liquid (danger of frostbile).<br>Wear cold insulating gloves/ face shield/eye protection<br>equipment.       Respiratory protection     :     In case of insufficient ventilation, wear suitable respiratory<br>equipment.       Wear a positive-pressure supplied-air respirator.<br>Vapours are heavier than air and can cause suffocation by<br>reducing oxygen available for breathing.<br>For rescue and maintenance work in storage tanks use self-<br>contained breathing apparatus.       Hygiene measures     :     Handle in accordance with good industrial hygiene and safety<br>practice.<br>Ensure adequate ventilation, especially in confined areas.<br>Avoid contact with skin, eyes and clothing.<br>Remove and wash contaminated clothing before re-use.<br>Keep working clothes separately.       Terrafluoroethane     811-97-2     TWA :<br>time<br>weighted<br>average     Upda     Basis<br>Honeywell :Limit<br>established by<br>Honeywell       1,1,1,2:     811-97-2     TWA :<br>time<br>weighted<br>average     4,240 mg/m3     2007     WEEL:US. AlHA<br>Workplace<br>Environmental<br>Exposure Level<br>(WEEL) Guides | 000009876              |                     |  |  |   |                                    |  |
|--|------------------------|---------------------|--|--|---|------------------------------------|--|
| Safety glasses with side-shields<br>If splashes are likely to occur, wear:<br>Goggles or face shield, giving complete protection to eyes         Hand protection       : Leather gloves<br>In case of contact through splashing:<br>Protective gloves<br>Neoprene gloves<br>Polyvinyl alcohol or nitrile- butyl-rubber gloves         Skin and body protection       : Avoid skin contact with leaking liquid (danger of frostbite).<br>Wear cold insulating gloves/ face shield/ eye protection.         Respiratory protection       : In case of insufficient ventilation, wear suitable respiratory<br>equipment.<br>Wear a positive-pressure supplied-air respirator.<br>Vapours are heavier than air and can cause suffocation by<br>reducing oxygen available for breathing.<br>For rescue and maintenance work in storage tanks use self-<br>contained breathing apparatus.         Hygiene measures       : Handle in accordance with good industrial hygiene and safety<br>practice.<br>Ensure adequate ventilation, especially in confined areas.<br>Avoid contact with skin, eyes and clothing.<br>Remove and wash contaminated clothing before re-use.<br>Keep working clothes separately.         Exposure Guidelines       Value       Control<br>parameters       Upda<br>Basis         1,1,1,2-<br>Tetrafluoroethane       811-97-2       TWA :<br>time<br>weighted<br>average       (1,000 ppm)<br>(1,000 ppm)       2007       WEEL:US.AIHA<br>Workplace<br>Environmental<br>Exposure Level<br>(WEEL) Guides  | sion 2.6               |                     | Re                                       | vision Date  | e 06/06/2014  |                                    | Print Date 03/19/2                           |
| Safety glasses with side-shields<br>If splashes are likely to occur, wear:<br>Goggles or face shield, giving complete protection to eyes         Hand protection       : Leather gloves<br>In case of contact through splashing:<br>Protective gloves<br>Neoprene gloves<br>Polyvinyl alcohol or nitrile- butyl-rubber gloves         Skin and body protection       : Avoid skin contact with leaking liquid (danger of frostbite).<br>Wear cold insulating gloves/ face shield/ eye protection.         Respiratory protection       : In case of insufficient ventilation, wear suitable respiratory<br>equipment.<br>Wear a positive-pressure supplied-air respirator.<br>Vapours are heavier than air and can cause suffocation by<br>reducing oxygen available for breathing.<br>For rescue and maintenance work in storage tanks use self-<br>contained breathing apparatus.         Hygiene measures       : Handle in accordance with good industrial hygiene and safety<br>practice.<br>Ensure adequate ventilation, especially in confined areas.<br>Avoid contact with skin, eyes and clothing.<br>Remove and wash contaminated clothing before re-use.<br>Keep working clothes separately.         Exposure Guidelines       Control<br>under basis areas       Upda<br>areas       Basis<br>Honeywell:Limit<br>established by<br>Honeywell<br>International Inc.         1,1,1,2-<br>Tetrafluoroethane       811-97-2       TWA :<br>time<br>weighted<br>average       4,240 mg/m3<br>(1,000 ppm)       2007       WEEL:US. AIHA<br>Workplace<br>Environmental<br>Exposure Level<br>(WEEL) Guides  | For and all            |                     | 14/                                      |  |   |                                    |  |
| In case of contact through splashing:<br>Protective gloves<br>Neoprene gloves<br>Polyvinyl alcohol or nitrile- butyl-rubber gloves         Skin and body protection       : Avoid skin contact with leaking liquid (danger of frostbite).<br>Wear cold insulating gloves/ face shield/ eye protection.         Respiratory protection       : In case of insufficient ventilation, wear suitable respiratory<br>equipment.<br>Wear a positive-pressure supplied-air respirator.<br>Vapours are heavier than air and can cause suffocation by<br>reducing oxygen available for breathing.<br>For rescue and maintenance work in storage tanks use self-<br>contained breathing apparatus.         Hygiene measures       : Handle in accordance with good industrial hygiene and safety<br>practice.<br>Ensure adequate ventilation, especially in confined areas.<br>Avoid contact with skin, eyes and clothing.<br>Remove and wash contaminated clothing before re-use.<br>Keep working clothes separately.         Exposure Guidelines       Image: CaS-No.       Value       Control<br>parameters       Upda       Basis         1,1,1,2-<br>Tetrafluoroethane       811-97-2       TWA :<br>time<br>weighted<br>average       (1,000 ppm)       Upda       Merecustional for<br>working clothes<br>the christional lnc.         1,1,1,2-<br>Tetrafluoroethane       811-97-2       TWA :<br>time<br>weighted<br>average       4,240 mg/m3<br>(1,000 ppm)       2007       WEEL:US.AIHA<br>Workplace   | Eye protection         | Safe<br>If sp       |  | y glasses v<br>ashes are l   | vith side-shields<br>ikely to occur, we   |                                    | rotection to eyes                            |
| Wear cold insulating gloves/ face shield/ eye protection.         Respiratory protection       In case of insufficient ventilation, wear suitable respiratory equipment.<br>Wear a positive-pressure supplied-air respirator.<br>Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing.<br>For rescue and maintenance work in storage tanks use self-contained breathing apparatus.         Hygiene measures       I Handle in accordance with good industrial hygiene and safety practice.<br>Ensure adequate ventilation, especially in confined areas.<br>Avoid contact with skin, eyes and clothing.<br>Remove and wash contaminated clothing before re-use.<br>Keep working clothes separately.         Exposure Guidelines       CAS-No.       Value       Control<br>parameters       Upda       Basis<br>te         1,1,1,2-<br>Tetrafluoroethane       811-97-2       TWA :<br>time<br>weighted<br>average       (1,000 ppm)       Honeywell:Limit<br>established by<br>Honeywell<br>International Inc.         1,1,1,2-<br>Tetrafluoroethane       811-97-2       TWA :<br>time<br>weighted<br>average       4,240 mg/m3<br>(1,000 ppm)       2007       WEEL:US. AIHA<br>Workplace<br>Environmental<br>Exposure Level<br>(WEEL) Guides  | Hand protection        | In c<br>Prot<br>Nec |  | n case of contact through splashing:<br>Protective gloves<br>Neoprene gloves |   |                                    |  |
| equipment.     Wear a positive-pressure supplied-air respirator.       Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing.       For rescue and maintenance work in storage tanks use self-contained breathing apparatus.       Hygiene measures     : Handle in accordance with good industrial hygiene and safety practice.       Ensure adequate ventilation, especially in confined areas.       Avoid contact with skin, eyes and clothing.       Remove and wash contaminated clothing before re-use.       Keep working clothes separately.       Exposure Guidelines       Components     CAS-No.       Value     Control parameters       1,1,1,2-     811-97-2       Tetrafluoroethane     811-97-2       1,1,1,2-     Tetrafluoroethane       1,1,1,2-     Tetrafluoroethane       1,1,1,2-     Tetrafluoroethane       1,1,1,2-     Tetrafluoroethane   | Skin and body protecti | ion :               |  |  |   |                                    |  |
| practice.       Ensure adequate ventilation, especially in confined areas.         Avoid contact with skin, eyes and clothing.       Remove and wash contaminated clothing before re-use.         Keep working clothes separately.       Exposure Guidelines         Components       CAS-No.       Value       Control parameters         1,1,1,2-       Tetrafluoroethane       811-97-2       TWA : time weighted average       (1,000 ppm)         1,1,1,2-       Tetrafluoroethane       811-97-2       TWA : time weighted average       4,240 mg/m3 (1,000 ppm)       2007         1,1,1,2-       Tetrafluoroethane       811-97-2       TWA : time weighted average       4,240 mg/m3 (1,000 ppm)       2007         WEEL:US. AIHA Workplace       Winkplace       Environmental Exposure Level (WEEL) Guides  | Respiratory protection | :                   | equip<br>Wear<br>Vapo<br>reduc<br>For re | ment.<br>a positive-<br>urs are hea<br>ing oxyger<br>escue and               | pressure supplie<br>avier than air and<br>a available for bre<br>maintenance wo | d-air resp<br>can cau<br>eathing.  | birator.<br>se suffocation by                |
| ComponentsCAS-No.ValueControl<br>parametersUpda<br>teBasis1,1,1,2-<br>Tetrafluoroethane811-97-2TWA :<br>time<br>weighted<br>average(1,000 ppm)Honeywell:Limit<br>established by<br>Honeywell<br>International Inc.1,1,1,2-<br>Tetrafluoroethane811-97-2TWA :<br>time<br>weighted<br>average4,240 mg/m3<br>(1,000 ppm)2007WEEL:US. AIHA<br>Workplace<br>Environmental<br>Exposure Level<br>(WEEL) Guides  |                        | :                   | pract<br>Ensu<br>Avoid<br>Remo           | ice.<br>re adequate<br>contact w<br>ove and wa                               | e ventilation, esp<br>ith skin, eyes and<br>sh contaminated                     | ecially in<br>clothing<br>clothing | confined areas.                              |
| 1,1,1,2-<br>Tetrafluoroethane811-97-2TWA :<br>time<br>weighted<br>average(1,000 ppm)Honeywell:Limit<br>established by<br>Honeywell<br>International Inc.1,1,1,2-<br>Tetrafluoroethane811-97-2TWA :<br>time<br>weighted<br>average4,240 mg/m3<br>(1,000 ppm)2007WEEL:US. AIHA<br>Workplace<br>Environmental<br>Exposure Level<br>(WEEL) Guides  |                        |                     |  | Value  |   | -                                  | Basis  |
| Tetrafluoroethane       time weighted average       (1,000 ppm)       Workplace Environmental Exposure Level (WEEL) Guides   |                        | 811-97-             | 2  | time<br>weighted   |   |                                    | established by<br>Honeywell                  |
| Page 6 / 13  |                        | 811-97-2            |  | time<br>weighted   |   | 2007                               | Workplace<br>Environmental<br>Exposure Level |
|  |                        |                     |  | Page 6   | / 13  |                                    |  |
|  |                        |                     |  |  | ,   |                                    |  |

## Honeywell

## Genetron®134a

## 00000009876

Version 2.6

Revision Date 06/06/2014

Print Date 03/19/2019

| Physical state               | : Liquefied gas  |
|------------------------------|--|
|                              |  |
| Color                        | : colourless   |
| Odor                         | : weak   |
| pH                           | : Note: neutral  |
| Melting point/freezing point | : -101 °C  |
| Boiling point/boiling range  | : -26.2 °C   |
| Flash point                  | : Note: not applicable   |
| Evaporation rate             | : > 1<br>Method: Compared to CCl4.                                       |
| Lower explosion limit        | : Note: None   |
| Upper explosion limit        | : Note: None   |
| Vapor pressure               | : 5,915 hPa<br>at 21.1 °C(70.0 °F)<br>14,713 hPa<br>at 54.4 °C(129.9 °F) |
| Vapor density                | : 3.5  |
| Density                      | : 1.2 g/cm3  |
| Water solubility             | : 1.5 g/l  |
|                              | Page 7 / 13  |

# Honeywell

# Genetron® 134a

|   | Revision Date 06/06/2014                                   | Print Date 03/19/2   |
|---|--|--|
|   |  |  |
| Partition coefficient: n-<br>octanol/water                                  | : log Pow: 1.06<br>Note: The product is more soluble in oc | tanol.   |
| Ignition temperature  | : >750 °C  |  |
| Auto-ignition temperature   | : >750 °C  |  |
| Decomposition temperature   | : > 250 °C<br>Note: To avoid thermal decomposition,        | do not overheat.   |
| Molecular weight  | : 102.02 g/mol   |  |
| Global warming potential<br>(GWP)   | : 1,300  |  |
| Ozone depletion potential<br>(ODP)  | : 0  |  |
|   |  |  |
|   | EACTIVITY<br>: Stable under normal conditions.             |  |
| CTION 10. STABILITY AND R<br>Chemical stability<br>Possibility of hazardous |  | cur.   |
| Chemical stability  | : Stable under normal conditions.                          | nlight and do not<br>C.<br>e and toxic<br>r at pressures above |

Page 8 / 13

#### Honeywell SAFETY DATA SHEET Genetron® 134a 00000009876 Version 2.6 Revision Date 06/06/2014 Print Date 03/19/2019 Hazardous decomposition : Halogenated compounds products Hydrogen fluoride Carbonyl halides Carbon oxides SECTION 11. TOXICOLOGICAL INFORMATION : LC50: > 500000 ppm Acute inhalation toxicity Exposure time: 4 h Species: rat Sensitisation : Cardiac sensitization Species: dogs Note: No-observed-effect level 50 000 ppm Lowest observable effect level 75 000 ppm Repeated dose toxicity : Species: rat NOEL: 40000 ppm Genotoxicity in vitro : Note: In vitro tests did not show mutagenic effects Further information : Note: Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. Rapid evapouration of the liquid may cause frostbite. Avoid skin contact with leaking liquid (danger of frostbite). SECTION 12. ECOLOGICAL INFORMATION Further information on ecology Additional ecological : Accumulation in aquatic organisms is unlikely. This product contains greenhouse gases which may information contribute to global warming. Do NOT vent to the atmosphere. To comply with provisions of the U.S. Clean Air Act, any residual must be recovered. Page 9 / 13

| SAFETY      | DATA SHEET  |  | Honeywell             |
|-------------|---|--|-----------------------|
| Genetron    | ®134a   |  |                       |
| 00000000    | 9876  |  |                       |
| Version 2.6 | F   | Revision Date 06/06/2014   | Print Date 03/19/2019 |
|             |   |  |                       |
| SECTION 13. | DISPOSAL CONSIDERATI  | ONS  |                       |
| Disposal    |   | oserve all Federal, State, and Loc<br>gulations.   | cal Environmental     |
| Note        | Ą   | nis product is subject to U.S. Envi<br>gency Clean Air Act Regulations<br>2 regarding refrigerant recycling. |                       |
| SECTION 14. | TRANSPORT INFORMATIO  | ON   |                       |
| DOT         | UN/ID No.<br>Proper shipping name<br>Class<br>Packing group | : UN 3159<br>: 1,1,1,2-Tetrafluoroethan<br>2.2   | e                     |
|             | Hazard Labels   | 2.2  |                       |
| ΙΑΤΑ        | UN/ID No.<br>Description of the goods                       | : UN 3159<br>: 1,1,1,2-Tetrafluoroethan  | e                     |
|             | Class<br>Hazard Labels<br>Packing instruction (carge        | : 2.2<br>: 2.2<br>o : 200  |                       |
|             | aircraft)<br>Packing instruction<br>(passenger aircraft)    | : 200  |                       |
| IMDG        | UN/ID No.<br>Description of the goods<br>Class              | : UN 3159<br>: 1,1,1,2-Tetrafluoroethan<br>: 2.2   | e                     |
|             | Hazard Labels<br>EmS Number<br>Marine pollutant             | : 2.2<br>: F-C, S-V<br>: no  |                       |
| SECTION 15. | REGULATORY INFORMAT   | ΓΙΟΝ   |                       |
| Inventori   | es  |  |                       |
|             |   | Page 10 / 13   |                       |
|             |   |  |                       |
|             |   |  |                       |

# Honeywell

## Genetron®134a

## 00000009876

| On TSCA Inventory<br>On the inventory, or in compliance with the inventory<br>All components of this product are on the Canadian DSL.<br>On the inventory, or in compliance with the inventory<br>On the inventory, or in compliance with the inventory<br>On the inventory, or in compliance with the inventory |
|--|
| On the inventory, or in compliance with the inventory<br>All components of this product are on the Canadian DSL.<br>On the inventory, or in compliance with the inventory<br>On the inventory, or in compliance with the inventory   |
| All components of this product are on the Canadian DSL.<br>On the inventory, or in compliance with the inventory<br>On the inventory, or in compliance with the inventory  |
| On the inventory, or in compliance with the inventory<br>On the inventory, or in compliance with the inventory   |
| On the inventory, or in compliance with the inventory  |
|  |
| On the inventory, or in compliance with the inventory  |
|  |
| On the inventory, or in compliance with the inventory  |
| On the inventory, or in compliance with the inventory  |
|  |
| SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.  |
| SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.  |
| Acute Health Hazard<br>Sudden Release of Pressure Hazard   |
| Page 11 / 13   |
|  |

#### SAFETY DATA SHEET Honeywell Genetron®134a 00000009876 Version 2.6 Revision Date 06/06/2014 Print Date 03/19/2019 California Prop. 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm. New Jersey RTK : 1,1,1,2-Tetrafluoroethane 811-97-2 Pennsylvania RTK : 1,1,1,2-Tetrafluoroethane 811-97-2 WHMIS Classification : A: Compressed Gas This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR. Global warming potential : 1,300 **Ozone depletion potential** : 0 (ODP) SECTION 16. OTHER INFORMATION HMIS III **NFPA** Health hazard : 1 2 Flammability : 1 1 Physical Hazard : 0 Instability 0 : Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system. **Further information** The information provided in this Safety Data Sheet is correct to the best of our knowledge, Page 12 / 13

| SAFETY DATA SHEET  |   | Honeywell  |
|--|---|--|
| Genetron® 134a   |   |  |
| 00000009876  |   |  |
| Version 2.6  | Revision Date 06/06/2014  | Print Date 03/19/2019  |
| guidance for safe handling, use,<br>to be considered a warranty or q<br>material designated and may not<br>materials or in any process, unle | uality specification. The information<br>to be valid for such material used in<br>ss specified in the text. Final deter | on, disposal and release and is not<br>on relates only to the specific<br>n combination with any other |
| versions.<br>Previous Issue Date: 12/06/2012   | are highlighted in the margin. This<br>ance Materials and Technologies  |  |
|  |   |  |
|  |   |  |
|  |   |  |
|  |   |  |
|  |   |  |
|  |   |  |
|  |   |  |
|  |   |  |
|  |   |  |
|  |   |  |
|  |   |  |
|  |   |  |
|  |   |  |
|  |   |  |
|  | Page 13 / 13  |  |